

May 17, 2012

Navy's Accomplishments/ and new proposals

- (1) Capture Zone Analysis - In the past, the Navy has depended on modeling to locate monitoring wells. The Navy is now planning on using capture zone analysis using field data in combination with modeling to better determine actual capture zones for the public water supply wells. The Navy is first planning on using the strategy at the Navy-controlled GM-38 Remediation System and then at subsequent areas, including Aqua New York. The capture zone analysis should be able to help us determine how much of the contamination is being captured by the well fields and whether additional treatment well would be useful.
- (2) Under the PWSCP, each well field has two or three outpost monitoring wells that were selected based on the presence of known groundwater contamination and the ARCADIS groundwater model projected shortest pathway to the well field. The Navy is now proposing to modify the PWSCP to install 6 to 9 outpost wells per wellfield to establish a three dimension network. The network will increase our understanding of when the plume is close to the wellfield, and therefore allow for advance notice.
- (3) The Navy plans on additional vertical profile borings and monitoring wells for Bethpage through at least the summer of 2013. The investigation will address deep groundwater near Bethpage Water District and GM-38 and then continue with delineation of groundwater south of Hempstead Turnpike (See item 4). These investigations would help the Navy to determine if there is a hydrogeological connection between the GM-38 system and the Bethpage Water district wells.
- (4) There will then be more focus on collecting groundwater data from the area between South Farmingdale Wellfield 3 and South Farmingdale Wellfield 1, as this is a large area without any recent groundwater data.
- (5) If there is additional funding remaining for this fiscal year, the Navy might be able to install additional monitoring wells in the Southern Area, near the Massapequa Water District, which is not impacted. The Navy should know by August 2012 if there is additional funding remaining.
- (6) The Navy's public website is to be finalized toward the end of May 2012.

